SUBJECT INDEX TO VOLUME 50

(abs) = abstract (E) = editorial

Abscess, Pott's, esophageal erosion from, 54
Acetabulum, osteochondritis juvenilis of (abs), 709
Achondroplasia foetalis (abs), 126
Adamantinoma, 480
Adaptation test, rapid dark (abs), 290
Adenocarcinoma and fibrosarcoma in same kidney (abs), 570
Adenoma, toxic, roentgen appearance of heart in (abs), 562
Adrenalectomized animals, specific action of polonium on lymphatic system in, 801
Adults, persistent olecranon epiphyses in (abs), 704
Alkaptonuric ochronosis, roentgen findings in (abs), 129
American Board of Radiology, 118, 412
Anatomy, soft tissue, some important considerations of, revealed by roentgenography of anatomical cross-sections (abs), 133
Anemia, incidence of, 433
  Mediterranean (abs), 710
Angiocardiography, evaluation of (E), 265
  in congenital heart disease, 306
Angioma of foot (abs), 712
Ankle, ruptured ligaments of, roentgen sign, 770
Annular shadows of unusual type associated with acute pulmonary infection, 719
Anomalies, patellar, roentgenologic and clinical consideration (abs), 419
Anthracosilicosis of lung, liquefaction necrosis in bilateral symmetrical conglomerate lesions of, 42
Aorta, coarctation of, in childhood (abs), 560
Appendicitis, left-sided, roentgen diagnosis of, 244
Army, mass roentgenography of chest for (abs), 273
  tuberculosis in (abs), 273
Arteries, calcification of, in infancy, with renal hyperparathyroidism (abs), 702
  calcification of, in infant (abs), 562
Arteriography in study of arterial circulation in early diagnosis of bone malignancy (abs), 699
Arthritis, cervical degenerative, neurological symptoms and clinical findings in patients with (abs), 125
  coccidioidal (abs), 705
  early suppurative, of hip in infancy, roentgen sign (abs), 710
Arthrograms of hip joints of children (abs), 130
Aspiration, Monaldi's cavity, in pulmonary tuberculosis, roentgenographic aspects of, 733
  simultaneous, of contents of stomach and first part of duodenum (abs), 566
Asthma, treatment of, with roentgen ray, 791
Atlanto-axial dislocations, spontaneous (abs), 559
  joint, pathologic dislocations at (abs), 125
Atlas-axis dislocation following cervical infection (abs), 559
Atresia, congenital, of esophagus (abs), 281
Autopsy survey of gastroduodenal ulcers in Philadelphia General Hospital (abs), 283

Basilar impression (abs), 272
Bejel, roentgen manifestations of, as observed in Euphrates River Valley (abs), 419
Bergman, Axel P., 1869–1943, obituary, 687
  portrait, 687
Beryllium window tubes, roentgen-ray measurements up to 400 kilovolts made with, 648
Bladder, cavernous hemangioma of (abs), 572
  injury of, subsequent to irradiation of uterus (abs), 146
  submucous extension of squamous cell epithelioma of (abs), 572
Blood cholesterin content as indicator of effect of radiotherapy in hyperthyroidism (abs), 430
  levels of dogs, effect of dermal and enteral irradiation by radiophosphorus on (abs), 291
  picture, white, in therapeutic short wave treatment (abs), 424
  sedimentation rate, value of, 433
  survey in all patients as aid in diagnosis, 433
  vessels, radiation effects on (abs), 426; (abs), 831
Body cavities, some improvements in structure and use of roentgen tube for (abs), 136
Bone absorption, effect of, on delivered roentgen radiation (abs), 832
  and joint changes, characteristic, in compressed-air workers (abs), 707
  changes, familial acholuric jaundice associated with (abs), 418
  eosinophilic or solitary granuloma of (abs), 700
  malignancy, roentgenographic study of arterial circulation in early diagnosis of (abs), 699
  marrow, pathology and histogenesis of Ewing's tumor of, 334
  marrow, roentgenologic aspects of Ewing's tumor of, 343
  neurilemmoma of (abs), 700
  Paget's disease of, differential diagnosis of carcinoma of prostate with skeletal metastases and (abs), 129
  solitary benign enchondroma of (E), 407
  tuberculosis of, in children (abs), 702
Bones, changes in, associated with disease or injury of central nervous system (abs), 129
  coccidioidal infection in (abs), 706
  destructive lesions of, in early syphilis (abs), 703
  flat, of vault of skull, tuberculosis of (abs), 558

growing rat, effect of irradiation upon composition and vascularity of, 516
long, multiple cystic tuberculosis of (abs), 130
multiple cystic tuberculosis of (abs), 704
Book Reviews
A Bibliography of Aviation Medicine. By Ebbe Curtis Hoff and John Farquhar Fulton, 413
War Gases: Their Identification and Decontamination. By Morris B. Jacobs, 414
Oleoperitoneografia: Contribución al estudio radiológico del peritoneo. By Carlos H. Niseggi, Marcelo H. Moreau, and Jorge E. Moreau, 414
Die Differentialdiagnose der Wirbelsäulentuberkulose. By J. E. W. Brocher, 414
Laboratory and Clinical Studies. Vol. xxi. From the Memorial Hospital, 415
Selected Papers from the Royal Cancer Hospital (Free) and the Chester Beatty Research Institute, 415
The Electrocardiogram and X-Ray Configuration of the Heart. By Arthur M. Master, 550
Plastic Surgery of the Breast and Abdominal Wall. By Max Thorek, 552
The Periodicity and Cause of Cancer, Leukaemia and Allied Tumours: With Chapters on Their Treatment. By J. H. Douglas Webster, 552
The Injured Back and Its Treatment. Edited by John D. Ellis, 553
Infantile Paralysis: A Symposium Delivered at Vanderbilt University, April, 1941, 553
Breast, cancer, fractures of rib cage following interstitial radium therapy for, 609
cancer, frequency, clinical course and treatment of metastases from, 499
cancer, place of irradiation in treatment of (abs), 713
cancer, preoperative irradiation of (abs), 714
cancer, pulmonary metastasis and pneumonitis following radiation therapy for, 491
cancer, roentgen therapy (abs), 712
cancer, selection of cases for surgery (abs), 714
cancer, spontaneous rib fractures following irradiation for, 797
pathology of (abs), 713
Bronchi, normal and abnormal, diameters of (abs), 277
Bronchial cancer, primary, obstructive phenomena associated with, 207
nomenclature, system of (abs), 564
Bronchiectasis (abs), 277
chronic, classification of (abs), 277
Bronchiogenic cysts, roentgenologic appearance of, 321
Bronchography, technique of (abs), 564
Burns, treatment of (abs), 429
Bursae, synovial sarcomas in (abs), 128
Calcification of arteries and deposits of calcium in both lungs in infant (abs), 562
of arteries in infancy, renal hyperparathyroidism with (abs), 702
of pancreas (abs), 565
of vasa deferentia (abs), 573
of vertebral ligaments, roentgen study (abs), 420
pancreatic (abs), 283
pericardial and intracardiac, technique for locating and identifying, 461
Calcium, deposits of, in both lungs in infant (abs), 562
Calculator for therapy exposure times (abs), 835
Cancer, accessible, of skin and mucous membrane, high voltage roentgen irradiation of (abs), 135
can rhythm of mitosis be utilized in dosage for (abs), 134
genital, results of treatment with roentgen rays (abs), 139
gynecologic, fracture of femoral neck following roentgen therapy for (abs), 418
importance of central clinics in successfully combating (abs), 428
management of patients receiving radiation therapy for (abs), 712
of breast, fractures of rib cage following interstitial radium therapy for, 609
of breast, frequency, clinical course and treatment of metastases from, 499
of breast, place of irradiation in treatment of (abs), 713
of breast, preoperative irradiation of (abs), 714
of breast, pulmonary metastasis and pneumonitis following radiation therapy for, 491
of breast, roentgen therapy (abs), 712
of breast, selection of cases for surgery (abs), 714
of breast, spontaneous rib fractures following irradiation for, 797
of cervix, consideration of effect of bone absorption on radiation in treatment of (abs), 832
of cervix, radium treatment of, during pregnancy (abs), 143
of cervix, response of crater of, to radiotherapy (abs), 144
of cervix, results of radiotherapy of (abs), 143
of esophagus, radiation therapy in, 89
of eyelids, thorium X treatment of (abs), 140
of face, thorium X treatment of (abs), 140
of female genitalia, radium therapy of (abs), 140
of kidney in adults, roentgen therapy of, 204
of stomach (abs), 568
of tonsils (abs), 136
patient, what causes death of (abs), 429
physical and biological considerations in use of slow neutrons for treatment of (abs), 288
primary bronchial, obstructive phenomena associated with, 207
primary, of female urethra, radiotherapy of (abs), 430

prospects for (abs), 428
prostatic, studies on (abs), 146
research and radiation therapy, newer phases of (E), 108
teaching day, 412
Carcinoma, epidermoid, in first decade of life (abs), 835
epidermoid, of tibia, 602
genital, forty years of radiotherapy of (abs), 425
of cervix, five year results of treatment of (abs), 144
of cervix, treatment of (abs), 143
of duodenum, clinical and roentgen manifestations of (abs), 284
of larynx and hypopharynx, results of roentgen irradiation of (abs), 138
of prostate (abs), 830
of prostate with skeletal metastases, differential diagnosis of, and osteitis deformans (abs), 129
of stomach, superficial spreading type of (abs), 568
squamous cell, of renal pelvis (abs), 571
Cardiovascular silhouette, "mitralization" of, in posteroanterior roentgenogram, 46
system, effects of roentgen irradiation on, 616
Carman Lecture (abs), 420
Russell, influence of, on status of fluoroscopy in America (abs), 421
Castration and metastases, 499
Cerebellum, tumors, unusual symptomatology with (abs), 271
Chene, George C., 1882–1943, obituary, 689
portrait, 689
Chest, control of diagnostic quality in roentgenograms of, 149
fluorographic examination of, as routine hospital procedure (abs), 274
laminagraphy in pathological conditions of (abs) 278
mass roentgenography of, for United States Army (abs), 273
war wounds and injuries of (E), 684
Child, combined cod liver oil and liquid petrolatum pneumonia in (abs), 562
Childhood, coarctation of aorta in (abs), 560
Salmonella suipestifer infections in (abs), 701
Children, arthrograms of hip joints of (abs), 130
comparative study of male and female pelves in (abs), 285
idiopathic cardiac enlargement in (abs), 279
osteitis tuberculosa multiplex cystoides in (abs), 702
with Ewing's sarcoma and sympathetic neuroblastoma, similarity of clinical and roentgen findings in, 575
Chlorophyll ointment, treatment of post-irradiation erythema with, 210
Cholecystogram, relation of density of shadows of gallbladder in, to iodine content (abs), 283
Cholecystography, high fat diet preceding (abs), 565
new medium for, 677, 680
Cholesterin content of blood as indicator of effect of radiotherapy in hyperthyroidism (abs), 430
Chondrodystrophia foetalis (abs), 126
Chondro-osteo-dystrophy (abs), 126
Chorionepithelioma accompanied by hypertension (abs), 573
Circulation, arterial, roentgenographic study of, in early diagnosis of bone malignancy (abs), 699
collateral venous, in thrombosis of inferior vena cava (abs), 132
rates, correlation between roentgenographic changes in lungs in left ventricular failure and, 316
Clarkson, Wright, 1889–1943, obituary, 822
portrait, 822
Clavicle, rhomboid depression of (abs), 126
Climacteric, intrauterine radium therapy of hemorrhage in (abs), 141
Coarctation of aorta in childhood (abs), 560
Coccidioidal arthritis (abs), 705
infection in bone (abs), 706
Coccidioidomycosis (abs), 706
and tuberculosis, parallelism of (abs), 563
of lungs, roentgen diagnosis (abs), 563
Cod liver oil and liquid petrolatum pneumonia in child (abs), 562
Colitis, mucous (abs), 569
Colon, roentgen therapy in hereditary diffuse polyposis of (abs), 833
spastic irritable (abs), 569
use of roentgenoscopy in study of (E), 538
Common duct, diagnosis of spontaneous internal fistulae of (abs), 282
Composition of growing rat bones, effect of irradiation upon, 516
Compressed-air workers, characteristic bone and joint changes in (abs), 707
Compression, effect of, on roentgen irradiation reaction of human skin, 629
Congenital atresia of esophagus (abs), 281
cardiac lesions, rôle of roentgenologist in diagnosis of (abs), 561
deformities in region of foramen magnum (abs), 272
Contact therapy. See Roentgen therapy
Contrast medium, new for gallbladder visualization, 677, 680
Cooley's anemia (abs), 710
Cor pulmonale, chronic, 453
Coxa plana, special reference to pathology and kinship (abs), 131
Cyst, intramedullary epidermoid, of spinal cord (abs), 124
Cystic fibrosis of pancreas (abs), 566

Cystitis, experimental roentgen, in dogs, pathology of (abs), 573
Cysts, "bronchiogenic," roentgenologic appearance of, 321

Dallas-Fort Worth Roentgen Study Club, 826
Dark room, portable, for processing roentgen films rapidly (abs), 147
simple film-drying shelf for (abs), 291
Death from air embolism following perirenal insufflation (abs), 829
Decompression, transpleural, use of, in tuberculous cavities (abs), 275.
Deformities, congenital, in region of foramen magnum (abs), 272
extension, of cervical spine (abs), 707
Dental roentgenograms, device to aid in processing of, 556
Desoxycorticosterone, effects of, on clinical patients with metastatic carcinoma of prostate (abs), 146
Developers, color-forming, and monochromatic roentgen radiation, roentgenography of soft tissues by, 248
Diagnostic quality, control of, in roentgenograms of chest, 149
Diaphragm, esophageal obstruction due to gummata of (abs), 281
Digits, hereditary short (abs), 126
Diodrast, diagnosis of coarctation of aorta in childhood by intravenous injection of (abs), 560
Dislocation, atlas-axis, following cervical infection (abs), 559
Dislocations, pathologic, at atlanto-axial joint (abs), 125
spontaneous atlanto-axial (abs), 559
Dog, unusual case of pulmonary osteoarthropathy in, 527
Dogs, pathology of experimental roentgen cystitis in (abs), 573
Dosage, control of interstitial radium treatment by direct measurement of skin dosage rate (abs), 135
distribution of, in rotation irradiation (abs), 834
for cancer, can rhythm of mitosis be utilized in (abs), 134
measurements, depth, by means of goldfish (abs), 288
measurements in contact roentgen therapy, 653
radium, for linear sources, 400
rates, different, of roentgen radiation, effects produced by (abs), 288
roentgen, and lymphoid cell migration in tissue cultures, correlation between (abs), 431
system for roentgen therapy, 67
tumor, system of, employed at Brooklyn Cancer Institute, 76
Dose, depth, measurements in contact roentgen therapy on rabbit's skin, 669
fractionation, roentgen, for varying periodicities (abs), 427
Dosimeter, construction of universal, its use for measurement of high resistances (abs), 289
Dosimetry, fundamentals in, in close irradiation (abs), 289
Ductus arteriosus, patent, roentgen signs of 293
patent, studied by angiocardiography, 306
Duodenum, carcinoma, clinical and roentgen manifestations of (abs), 284
descending, ulcer in, 752
method for simultaneous aspiration of contents of stomach and first part of (abs), 566
Dwarfism, renal, 582
Dyke, Cornelius Gysbert, 1900–1943, obituary, 112
portrait, 112
tribute to, before Harvey Cushing Society, 113

Ectopia cordis (abs), 560
Edema following irradiation (abs), 426
Editorials
Newer phases of cancer research and radiation therapy, 108
Cornelius Gysbert Dyke, 1900–1943, 112, 113
Nikola Tesla, 1856–1943, 114
An evaluation of angiocardiography, 265
Solitary benign enchondroma of bone, 407
Charles Byron Ward, 1882–1943, 408
The art of roentgenoscopy in general, and its use in the study of the colon in particular, 538
Arthur Willis Goodspeed, 1860–1943, 542, 544
Lesser Bernhardt Groeschel, 1886–1943, 545
War wounds and injuries of the chest, 684
Axel P. Bergman, 1869–1943, 687
George C. Chene, 1882–1943, 689
Haig Haigouni Kasabach, 1898–1943, 691
Effect, biological, of roentgen rays of long and short wave length on totally irradiated rat (abs), 289
of bone absorption on delivered roentgen radiation (abs), 832
of compression and low temperature on roentgen irradiation reaction of human skin, 629
of dermal and enteral irradiation by radiophosphorus on blood levels of dogs (abs), 291
of heparinization on experimental post-irradiation tissue changes in lung, 1
of ionizing radiations on broad bean root (abs), 836
of irradiation in proliferation and metabolic processes of normal and malignant mammalian tissues (abs), 288
of irradiation upon composition and vascularity of growing rat bones, 516
of 1,000 kilovolt roentgen therapy, 392
of radiation on blood vessels (abs), 426; (abs), 831

of roentgen irradiation on cardiovascular system, 616
of roentgen rays on inflammatory conditions (abs), 422
of roentgen rays on light-transmission of glass (abs), 836
of roentgen rays on peripheral nerve of rat (abs), 292
of roentgen rays, radon and radioactive phosphorus on thiamin chloride, 641
of 200 kilovolt roentgen therapy, 381
Embolism, air, death from, following perirenal insufflation (abs), 829
Embryological interpretation, collateral venous circulation in thrombosis of inferior vena cava and (abs), 132
Emphysema, mediastinal (abs), 279
Enchondroma, solitary benign, of bone (E), 407
Endometriosis, radiotherapy in (abs), 141
Enema, small intestinal, 743
Enteritis, chronic ulcerative, *Histoplasma capsulatum* as cause of (abs), 569
Eosinophilic granuloma of tibia, 355
Epidermoid carcinoma in first decade of life (abs), 835
Epididymis, myomatous tumors of (abs), 574
primary sarcoma of (abs), 830
Epilation, temporary, hyperpigmentation of hair after (abs), 147
Epiphyseal pseudarthrosis (abs), 704
Epiphyses, persistent olecranon, in adults (abs), 704
Epithelioma, squamous cell, of bladder, submucous extension of (abs), 572
Erythema following irradiation (abs), 426
post-irradiation, treatment of, with chlorophyll ointment, 210
Erythrocytes, sedimentation rate of, 433
Esophageal hiatus, gastric herniation at, 33
Esophagus, cancer, radiation therapy in, 89
congenital atresia of (abs), 281
erosion of, from Pott's abscess, 54
obstruction of, due to gummata of esophagus and diaphragm (abs), 281
Estrogen, effects of, on clinical patients with metastatic carcinoma of prostate (abs), 146
Ewing's sarcoma and sympathetic neuroblastoma, similarity of clinical and roentgen findings in children with, 575
Eyelids, cancer, thorium X treatment of (abs), 140

Face, cancer, thorium X treatment of (abs), 140
Fallopian tubes, therapeutic value of patency tests of, in sterility and infertility (abs), 285
Fat diet, high, preceding cholecystography (abs), 565
Femur, fracture of neck of, following roentgen therapy for gynecologic malignancy (abs), 418
Fetal motion factor in roentgen diagnosis of pregnancy (abs), 285
Fever, effects of, on clinical patients with metastatic carcinoma of prostate (abs), 146
Fibroids, uterine, roentgen management of (abs), 427
Fibrosarcoma and adenocarcinoma in same kidney (abs), 570
Fibrosis, cystic, of pancreas (abs), 566
Field distribution, relation of focal spot to, 530
Film drying shelf for dark room (abs), 291
Films, miniature, simplified method of preserving roentgenograms and allied records on (abs), 148
of millimetric dimensions, reproduction of roentgenograms on (abs), 148
x-ray, portable dark room for processing rapidly (abs), 147
Finger prints, roentgen-ray, technique for 366
Fingers, hereditary short (abs), 126
Fistulae, spontaneous internal biliary, roentgen diagnosis of (abs), 282
Fluorescing material of screen, effect of varying coating thickness of, on luminous output obtained (abs), 290
Fluorographic examination of chest as routine hospital procedure (abs), 274
Fluoroscopes and fluoroscopy (abs), 420
Fluoroscopy and fluoroscopes (abs), 420
inception and development of (abs), 421
Focal spot, relation of, to field distribution, 530
Foot, angioma of (abs), 712
Foramen magnum, congenital deformities in region of (abs), 272
Foreign bodies, localization, roentgenographic technique for, 366
localization, with roentgenoscope, 554
universal table for fluoroscopic localization of (abs), 290
Fracture, fatigue, ice skater's fracture a form of, 469
ice skater's, 469
march (abs), 419
of femoral neck following roentgen therapy for gynecologic malignancy (abs), 418
Fractures of rib cage following interstitial radium therapy for cancer of breast, 609
spontaneous rib, following irradiation for cancer of breast, 797

Gallbladder, new medium for visualization of, 677, 680
normal, experimental studies on filling (abs), 565
relation of density of cholecystographic shadows of, to iodine content (abs), 283
Gallstones, star-shaped radiolucencies of, rare roentgen sign (abs), 282
Gamma-ray therapy, direct-reading instrument for measurement of ionization currents in (abs), 836
Gargoylism, 61

Gastritis, gastroscopic appearances in (abs), 566
roentgen aspect of (abs), 567
Gastrointestinal tract, complications of, in pulmonary tuberculosis (abs), 281
influence of single dose of commonly used laxatives on motility of (abs), 282
roentgen diagnosis of fungous infections of (abs), 567
use of modified opaque meal in roentgen examination of (abs), 835
Gastroscopic appearances in gastritis (abs), 566
Gaucher's disease (abs) 709; 765
joint involvement in (abs), 709
Geiger-Müller counter, portable (abs), 432
Genital cancer, results of treatment with roentgen rays (abs), 139
Genitalia, female, radium therapy of cancer of (abs), 140
Genitoperitoneal tuberculosis in women, treatment of, with roentgen irradiation by Menge's method (abs), 139
Glass, effect of roentgen rays on light-transmission of (abs), 836
Goiter, exophthalmic, and precocious puberty, osteodystrophia fibrosa combined with (abs), 701
Goodspeed, Arthur Willis, 1860–1943, obituary, 542
pioneer work of, 544
portrait, 542
Granuloma, eosinophilic, of tibia, 355
eosinophilic or solitary, of bone (abs), 700
Graves' disease, roentgen appearance of heart in (abs), 562
Groeschel, Lesser Bernhardt, 1886–1943, obituary, 545
portrait, 545
Gummata of esophagus and diaphragm, esophageal obstruction due to (abs), 281

Hair, hyperpigmentation of, after temporary epilation (abs), 147
Heart disease, congenital, angiocardiography in, 306
displacement of (abs), 560
enlargement of right side of, 453
idiopathic enlargement of, in infants and children (abs), 279
left ventricular failure, correlation between roentgenographic changes in lungs in, and circulation rates, 316
roentgen appearance of, in toxic adenoma and Graves' disease (abs), 562
roentgen determination of size of, during acute coronary thrombosis (E), 820
roentgen diagnosis of vitamin deficiency conditions of (abs), 280
rôle of roentgenologist in diagnosis of congenital lesions of (abs), 561
technique of locating and identifying areas of calcification in, 461
Hemangioma, cavernous, of bladder (abs), 572
treatment of (abs), 830
Hemorrhage, gynecological, of benign origin, results of radium treatment of (abs), 142
in climacteric, intrauterine radium therapy of (abs), 141
uterine, intrauterine radium irradiation of (abs), 142
Heparin, abortive treatment of venous thrombosis with (abs), 132
Heparinization, effect of, on experimental post-irradiation tissue changes in lung, 1
Herniation, gastric, at esophageal hiatus, 33
Hip joints of children, arthrograms of (abs), 130
roentgen sign of early suppurative arthritis of, in infancy (abs), 710
Histoplasma capsulatum as cause of chronic ulcerative enteritis (abs), 569
Histoplasmosis of knee (abs), 703
pulmonary (abs), 276
Hormone, production of, in seminoma of testis, 162
Hospital service plans and practice of radiology, 548
Hydronephrosis, conservation of kidney with (abs), 570
massive (abs), 570
Hyperparathyroidism, renal, with calcification of arteries in infancy (abs), 702
Hyperpigmentation of hair after temporary epilation (abs), 147
Hyperthyroidism, blood cholesterin content as indicator of effect of radiotherapy in (abs), 430
Hypopharynx, results of roentgen irradiation of carcinoma of (abs), 138
Hypophysis, irradiation of (abs), 137

Ice skater's fracture, 469
Idiopathic cardiac enlargement in infants and children (abs), 279
Ileocecal valve, enlargement of, 19
Infancy, renal hyperparathyroidism with calcification of arteries in (abs), 702
roentgen sign of early suppurative arthritis of hip in (abs), 710
Infant, calcification of arteries and deposits of calcium in both lungs in (abs), 562
Infants, idiopathic cardiac enlargement in (abs), 279
spontaneous pneumomediastinum in (abs), 279
staphylococcic pneumonia in (abs), 564
Infections, coccidioidal and tuberculous, parallelism of (abs), 563
fungous, of gastrointestinal tract, roentgen diagnosis (abs), 567
fungous, of lungs, roentgen diagnosis (abs), 563
Inflammations, action of roentgen rays on (abs), 422
Injuries and war wounds of chest (E), 684

radiation, significance and management of (abs), 429
radium, physical diagnosis of (abs), 425
Injury to patients and personnel from roentgen rays (abs), 286
Inspissated cavity (abs), 275
Inter-American Congress of Radiology, First, announcement of, 269
Interauricular septum, patent, associated with mitral stenosis (abs), 280
Intravertebral disc, protrusion of, thorotrast in diagnosis of (abs), 698
roentgen consideration of lesions of (abs), 127
ruptured, improved localization and treatment of (abs), 698
Intestine, small, examination of, by use of barium enema, 743
Intramedullary epidermoid cyst of spinal cord (abs), 124
Iodine content, relation of density of cholecystographic shadows of gallbladder to (abs), 283
Ionization currents in gamma-ray therapy, direct-reading instrument for measurement of (abs), 836
oscillograms, 258
Irradiation, effect of dermal and enteral, by radiophosphorus on blood levels of dogs (abs), 291
effect of, on proliferation and metabolic processes of normal and malignant mammalian tissues (abs), 288
effect of, upon composition and vascularity of growing rat bones, 516
for cancer of breast, spontaneous rib fractures following, 797
general treatment of patients during radium and roentgen (abs), 134
of malignant tumors, physico-biological problems in (abs), 133
place of, in treatment of cancer of breast (abs), 713
pleuropulmonitis, chronic, abnormal pulmonary physiology as result of, 772
rotation, distribution of dosage in (abs), 834
treatment of erythema following, with chlorophyll ointment, 210
ulcers from, treatment (abs), 429
Isodose charts, comparative, for 200 kv., 400 kv., and 1,000 kv. roentgen rays (abs), 833

Jaundice, familial acholuric, associated with bone changes (abs), 418
Joint involvement in Gaucher's disease (abs), 709
Joints, changes in, associated with disease or injury of central nervous system (abs), 129
synovial sarcomas in (abs), 128

Kasabach, Haig Haigouni, 1898–1943, obituary, 691
portrait, 691
Kidney, adenocarcinoma in fibrosarcoma in same (abs), 570
hydronephrotic, conservation of (abs), 570
malignant tumors of, in adults, roentgen therapy, 204
pelvic single (abs), 571
squamous cell carcinoma of pelvis of (abs), 571
Kilovoltage technique, optimum, in military roentgenography, 358
Klippel-Feil syndrome, 57
Knee, histoplasmosis of (abs), 703
Kyphosis dorsalis juvenilis, diagnosis and treatment in early stage (abs), 708

Laminagraph, new method of localization by modified use of (abs), 291
Laminagraphy in chest conditions (abs), 278
of skull (abs), 272
Larynx, results of roentgen irradiation of carcinoma of (abs), 138
Laxatives, influence of single dose of commonly used, on gastrointestinal motility (abs), 282
Leontiasis ossea (abs), 124
Leukemia, lymphogenous (abs), 831
Leukocyte count in therapeutic short wave treatment (abs), 424
Ligaments, ruptured, of ankle, roentgen sign, 770
vertebral, calcification and ossification of, roentgen study (abs), 420
Linear sources, radium dosage for, 400
Localization and treatment of ruptured intervertebral discs (abs), 698
fluoroscopic, of foreign bodies, universal table for (abs), 290
foreign body, roentgenographic technique for, 366
new method of, by modified use of laminagraph (abs), 291
of foreign bodies with roentgenoscope, 554
Lumbosacral region, clinicoanatomical aspects of (abs), 708
correlation of roentgenographic and anatomical observations (abs), 709
Lungs, abnormal physiology of, as result of chronic irradiation pleuropulmonitis, 772
annular shadows of unusual type associated with acute infection of, 719
correlation between roentgenographic changes in, in left ventricular failure and circulation rates, 316
deposits of calcium in, in infant (abs), 562
effect of heparinization on experimental post-irradiation tissue changes in, 1
findings in, by roentgen examination, during acute coronary thrombosis (E), 820
histoplasmosis of (abs), 276
liquefaction necrosis in bilateral symmetrical conglomerate lesions of anthracosilicosis of, 42

metastasis to, following radiation therapy for cancer of breast, 491
normal, influence of roentgen irradiation of, on prevention of subsequent metastatic tumor growth (abs), 139
roentgen diagnosis of fungous infections of (abs), 563
Lutembacher's syndrome (abs), 280
Lymph nodes, cervical, diagnosis of metastasis to, from squamous carcinoma of mouth and throat, 219
Lymphatic system, specific action of polonium on, in adrenalectomized animals, 801
Lympho-haematogenous tuberculosis (abs), 278
Lymphoid cell migration, correlation between roentgen dosage and, in tissue cultures (abs), 431
Lymphosarcoma of rectum (abs), 832

Malignancy, bone, roentgenographic study of arterial circulation in early diagnosis of (abs), 699
criteria of (abs), 134
March fracture (abs), 419
Measurement, direct, of skin dosage rate, dosage control of interstitial radium treatment by (abs), 135
of high resistances, universal dosimeter for (abs), 289
of ionization currents in gamma-ray therapy, direct-reading instrument for (abs), 836
of roentgen-ray tube voltage, two instruments for (abs), 432
Measurements, depth dose, in contact roentgen therapy on rabbit's skin, 569
dosage, in contact roentgen therapy, 653
on roentgen-ray production and absorption in range 0.7 to 2.5 megavolts, 803
roentgen-ray, up to 400 kilovolts made with beryllium window tubes, 648
Mediterranean anemia (abs), 710
Menge's method, treatment of genitoperitoneal tuberculosis in women with roentgen irradiation by (abs), 139
Metabolic changes occurring as result of deep roentgen therapy, 381, 392
Metastasis, cervical, from squamous carcinoma of mouth and throat, diagnosis of, 219
from cancer of breast, frequency, clinical course and treatment, 499
from seminoma of testis, 162
influence of roentgen irradiation of normal lung on prevention of subsequent (abs), 139
pulmonary, and pneumonitis following radiation therapy for cancer of breast, 491
results of roentgen therapy for, 197
skeletal, differential diagnosis of carcinoma of prostate with, and osteitis deformans (abs), 129
Metatarsal sesamoid, osteitis of (abs), 131
Metropathy, hemorrhagic, intrauterine radium irradiation of (abs), 142
Microfluorograms, value of diagnostic study of all patients by examination of chest with, 433
Mitosis, can rhythm of, be utilized in dosage for cancer (abs), 134
"Mitralization" of cardiovascular silhouette in posteroanterior roentgenogram, 46
Monaldi's cavity aspiration in pulmonary tuberculosis, roentgenographic aspects of, 733
Mono-osteitic Paget's disease as clinical entity, 230
Mouth, diagnosis of cervical metastasis from squamous carcinoma of, 219
Mucous glands, tumors of, radium treatment (abs), 137
membrane, high voltage roentgen irradiation of accessible cancer of (abs), 135
Myeloma, endothelial, 575
Myoma of epididymis (abs), 574
of uterus, intrauterine radium irradiation of (abs), 142
Myositis ossificans progressiva (abs), 132

Naegele pelvis (abs), 417; (abs), 418
Nasopharyngeal tumors, malignant, roentgen diagnosis, 9
Navy, exclusion of pulmonary tuberculosis from (abs), 272
Necrosis, liquefaction, in bilateral symmetrical conglomerate lesions of anthracosilicosis of lung, 42
Neoplastic disease, malignant, tracer studies with radioactive phosphorus in (abs), 287
Nerve, peripheral, of rat, effect of roentgen rays on (abs), 292
Nervous system, central, changes in bones, joints and soft tissues associated with disease or injury of (abs), 129
Neurilemmoma of bone (abs), 700
Neuroblastoma, sympathetic, and Ewing's sarcoma, similarity of clinical and roentgen findings in children with, 575
Neutrons, slow, physical and biological considerations in use of, for cancer therapy (abs), 288
New York Roentgen Society, 118
Newman, Allen T., erratum in degree following name, 118
Nomenclature, bronchial, system of (abs), 564

Obstructive phenomena associated with primary bronchial cancer, 207
Ochronosis, alkaptonuric, roentgen findings in (abs), 129
Olecranon epiphyses, persistent, in adults (abs), 704
Omentum, great, motility and response of (abs), 835
Opaque meal, modified, use of, in gastroroentgenography (abs), 835
Oscillograms, ionization, 258

Ossification of vertebral liagments, roentgen study (abs), 420
Osteitis deformans, differential diagnosis of carcinoma of prostate with skeletal metastases and (abs), 129
of metatarsal sesamoid (abs), 131
tuberculosa multiplex cystoides in children (abs), 702
Osteoarthropathy, pulmonary, unusual case of, in dog, 527
Osteochondritis juvenilis (abs), 131
of acetabulum (abs), 709
Osteodystrophia fibrosa combined with precocious puberty and exophthalmic goiter (abs), 701
Osteomalacia associated with long-continued low-grade steatorrhea (abs), 699
Osteomyelitis, acute pyogenic (abs), 131
Osteoporosis, severe, associated with long-continued low-grade steatorrhea (abs), 699
Ovary, development of benign and malignant tumors of, after roentgen irradiation (abs), 145
preservation of function of, in irradiation of tumors of pelvis (abs), 145

Paget's disease, mono-osteitic, as clinical entity, 230
of bone, differential diagnosis of carcinoma of prostate with skeletal metastases and (abs), 129
Paintings, use of roentgen ray in scientific examination of, 779
Palate, benign and malignant tumors of (abs), 558
Pancreas, calcification of (abs), 283; (abs), 565
cystic fibrosis of (abs), 566
roentgen diagnosis of space-occupying lesions in region of head of (abs), 284
Parotitis, acute postoperative (abs), 422
postoperative, radium treatment of (abs), 422
Patella, anomalies, roentgenologic and clinical considerations (abs), 419
Pathology of experimental roentgen cystitis in dogs (abs), 573
Patients, civilian, changes made in care of, due to war conditions, 433
Pelvimetry, roentgen, simple method of (abs), 417
Pelvis, comparative study of male and female, in children (abs), 285
irradiation of benign lesions of (abs), 427
mixed sarcoma of, treated with roentgen rays and observed for fourteen years (abs), 146
Naegele (abs), 417; (abs), 418
renal, squamous cell carcinoma of (abs), 571
tumors, preservation of ovarian function in irradiation of (abs), 145
Pericardium, technique of locating and identifying areas of calcification in, 461
Perirenal insufflation, death from air embolism following (abs), 829
Peritonitis, acute, roentgen treatment of (abs), 422
Petrolatum, liquid, and cod liver oil pneumonia in child (abs), 562
Phlebography, early diagnosis of venous thrombosis with (abs), 132
Phosphorus, radioactive, effect of, on thiamin chloride, 641
radioactive, tracer studies with, in malignant neoplastic disease (abs), 287
Photoroentgenography in tuberculosis program (abs), 274
Physical diagnosis of radium injuries (abs), 425
factors concerned in indirect roentgenography (abs), 290
Physiology, abnormal pulmonary, as result of chronic irradiation pleuropulmonitis, 772
Phytobezoar, its formation in vitro (abs), 283
Pleural effusions, bilateral tuberculous (abs), 276
Pleuropulmonitis, chronic irradiation, abnormal pulmonary physiology as result of, 772
Pneumomediastinum, spontaneous (abs), 279
Pneumonia, combined cod liver oil and liquid petrolatum, in child (abs), 562
staphylococcic, in infants (abs), 564
value of roentgen therapy in cases which fail to respond to sulfonamides (abs), 423
Pneumonitis, acute, 444
following radiation therapy for cancer of breast, 491
Pneumopyelography (abs), 829
Pneumopyothorax, occurrence of, in staphylococcic pneumonia in infants (abs), 564
Polonium, specific action of, on lymphatic system in adrenalectomized animals, 801
Polyposis, hereditary diffuse, of colon, roentgen therapy in (abs), 833
Polyps, benign, of ureter (abs), 572
Pott's abscess, esophageal erosion from, 54
Pregnancy, abdominal (abs), 284
fetal motion factor in roentgen diagnosis of (abs), 285
radium treatment of cancer of cervix during (abs), 143
Priodax, new medium for gallbladder visualization, 677, 680
Prostate gland, cancer, studies on (abs), 146
carcinoma of (abs), 830
carcinoma of, with skeletal metastases, differential diagnosis of, and osteitis deformans (abs), 129
Protection, roentgen-ray, in diagnostic roentgenology (abs), 421
Pruritus vulvae, rôle of deep roentgen therapy in (abs), 147
Pseudarthrosis, epiphyseal (abs), 704
Puberty, precocious, and exophthalmic goiter, osteodystrophia fibrosa combined with (abs), 701
Pyrographic marking of roentgen films, 696

Radiation effects on blood vessels (abs), 426; (abs), 831
injuries, significance and management of (abs), 429
ionizing, effect of, on broad bean root (abs), 836
therapy and cancer research, newer phases of (E), 108
therapy, for cancer, management of patients (abs), 712
therapy in cancer of esophagus, 89
Radioactive elements, elimination of, by patients and rabbits after injection of thorotrast (abs), 286
phosphorus, tracer studies with, in maligmant neoplastic disease (abs), 287
Radiological Society of New Jersey, 412
Radiologist called into national service, obligations to (abs), 834
Radiology, practice of, and hospital service plans, 548
Radiophosphorus, absorption of, in irradiated and non-irradiated mice (abs), 287
effect of dermal and enteral irradiation by, on blood levels of dogs (abs), 291
Radiosensitivity of skin, modification of, 629
of skin of newborn rats (abs), 292
Radiotherapy in hyperthyroidism, blood cholesterin content as indicator of effect of (abs), 430
of genital carcinoma, forty years of (abs), 425
Radium dosage for linear sources, 400
implantation method, experience with (abs), 138
injuries, physical diagnosis of (abs), 425
protective screening of, during transportation (abs), 148
therapy, interstitial, for cancer of breast, fractures of rib cage following, 609
therapy, intrauterine, in hemorrhage in climacteric (abs), 141
treatment, interstitial, dosage control of, by direct measurement of skin dosage rate (abs), 135
Radon, effect of, on thiamin chloride, 641
Records, system of, employed at Brooklyn Cancer Institute, 76
Rectum, lymphosarcoma of (abs), 832
Renal dwarfism or renal rickets, 582
hyperparathyroidism with calcification of arteries in infancy (abs), 702
Rhabdomyosarcoma (abs), 132
Rhomboid depression of clavicle (abs), 126
Rib cage, fractures of, following interstitial radium therapy for cancer of breast, 609
Ribs, spontaneous fractures of, following irradiation for cancer of breast, 797
tuberculosis of (abs), 418
Rickets, renal, 582
Roentgen cystitis, experimental, in dogs, pathology of (abs), 573
dose fractionation for varying periodicities (abs), 427
films, pyrographic marking of, 696
irradiation by Menge's method, treatment of genitoperitoneal tuberculosis in women with (abs), 139
irradiation, close, fundamentals in dosimetry in (abs), 289
irradiation, development of benign and malignant tumors of uterus and ovary after (abs), 145
irradiation, effects of, on cardiovascular system, 616
irradiation, fractionated, skin reaction and wave length in (abs), 426
irradiation, high voltage, of accessible cancer of skin and mucous membrane (abs), 135
irradiation of normal lung, influence of, on prevention of subsequent metastatic tumor growth (abs), 139
irradiation, quantitative and qualitative differences in reaction after (abs), 426
irradiation reaction of human skin, effects of compression and low temperature on, 629
radiation, monochromatic, and color-forming developers, roentgenography of soft tissues by, 248
-ray equipment, War Production Board amends limitation order L-206
-ray generators, stepless voltage controls for (abs), 834
-ray machine, electric model of (abs), 431
-ray measurement up to 400 kilovolts made with beryllium window tubes, 648
-ray production and absorption in range 0.7 to 2.5 megavolts, measurements on, 803
-ray protection in diagnostic roentgenology (abs), 421
ray, treatment of asthma with, 791
-ray tube voltage, two instruments for measuring (abs), 432
ray, use of, in scientific examination of paintings, 779
rays, action of, on inflammatory conditions (abs), 422
rays, effect of, on peripheral nerve of rat (abs), 292
rays, effect of, on thiamin chloride, 641
rays, group of persons whose skin and subcutaneous tissues are unusually sensitive to, 636
rays of long and short wave length, biological effect of, on totally irradiated rat (abs), 289
rays, practical considerations regarding employment of various qualities of, in therapy (abs), 424
rays, question of injury to patients and personnel from (abs), 286

rays, 200 kv., 400 kv., and 1,000 kv., comparative isodose charts for (abs), 833
sign of early suppurative arthritis of hip in infancy (abs), 710
signs of patent ductus arteriosus, 293
therapy, contact, depth dose measurements in, on rabbit's skin, 669
therapy, contact, dosage measurements in, 653
therapy, deep, metabolic changes occurring as result of, 381, 392
therapy, dosage system for, 67
therapy, intracavitary contact, simple device for (abs), 136
therapy, 1,000 kilovolt, effect of, 392
therapy, simple calculator for exposure times in (abs), 835
therapy, 200 kilovolt, effect of, 381
therapy, value of, in pneumonia which fails to respond to sulfonamides (abs), 423
therapy, various qualities of roentgen rays in (abs), 424
tube ratings and exposure (abs), 432
tube, some improvements in structure and use of, for body cavities (abs), 136
tubes, beryllium window, roentgen-ray measurements up to 400 kilovolts made with, 648
Roentgenogram, posteroanterior, "mitralization" of cardiovascular silhouette in, 46
Roentgenograms, control of process of development of, 149
dental, device to aid in processing of, 556
of chest, control of diagnostic quality in, 149
reproductions of, on films of millimetric dimensions (abs), 148
simplified method of preserving on miniature films (abs), 148
Roentgenography, indirect, physical factors concerned in (abs), 290; (abs), 836
lateral, of spine, 695
mass, of chest, for United States Army (abs), 273
military, optimum kilovoltage technique in, 358
or anatomical cross-sections, some important considerations of soft tissue anatomy revealed by (abs), 133
of soft tissues by monochromatic roentgen radiation and color-forming developers, 248
of wrist, oblique views in, 119
Roentgenologic equipment, determination and correction of faults in, by ionization oscillogram, 258
services, requirements for, in field of combat (abs), 835
Roentgenologist, rôle of, in diagnosis of congenital cardiac lesions (abs), 561
Roentgenology, diagnostic, roentgen-ray protection in (abs), 421
Roentgenoscope, localization of foreign bodies with, 554
Roentgenoscopic localization of foreign bodies, universal table for (abs), 290
Roentgenoscopy, art of (E), 538
use of, in study of colon (E), 538

Salivary glands, tumors of, radium treatment (abs), 137
Salmonella suipestifer infections in childhood (abs), 701
Sarcoidosis (abs), 705
Sarcoma, Ewing's, and sympathetic neuroblastoma, similarity of clinical and roentgen findings in children with, 575
mixed, of pelvis, treated with roentgen rays, observed for fourteen years (abs), 146
mouse, No. 180, effects produced by different dosage rates of roentgen radiation upon growth factors of (abs), 288
primary, of epididymis (abs), 830
synovial, in joints, bursae and tendon sheaths (abs), 128
Scheuermann's kyphosis, diagnosis and treatment in early stage (abs), 708
Screen, effect of varying coating thickness of fluorescing material of, on luminous output obtained (abs), 290
Screening, secondary (abs), 290
Seminoma of testis, and production of hormone, 162
of testis, pathologic features of, 162
of testis, roentgen treatment, 162
Short wave treatment, therapeutic, white blood picture in (abs), 424
Sigmoiditis, 24
Sinusitis, acute roentgen therapy of (abs), 423
Skeleton, carcinoma of prostate with metastases of, differential diagnosis of, and osteitis deformans (abs), 129
tuberculosis of, relation between, and genitourinary tuberculosis (abs), 570
Skin dosage rate, dosage control of interstitial radium treatments by direct measurement of (abs), 135
effects of compression and low temperature on roentgen irradiation reaction of, 629
high voltage roentgen irradiation of accessible cancer of (abs), 135
modification of radiosensitivity of, 629
of newborn rats, temperature and radiosensitivity of (abs), 292
rabbit's, depth dose measurements in contact roentgen therapy on, 669
rabbit's, treated with ultraviolet radiation, localization and concentration of staphylococcus antitoxin in areas of, 101
reaction and wave length in fractionated roentgen irradiation (abs), 426
usually sensitive to roentgen rays, 636
Skull laminagraphy (abs), 272
tuberculosis of flat bones of vault of (abs), 558

Soft tissues, anatomy, some important considerations of, revealed by roentgenography of anatomical cross-sections (abs), 133
changes in, associated with disease or injury of central nervous system (abs), 129
roentgenography of, by monochromatic roentgen radiation and color-forming developers, 248
surface detail, roentgenographic technique for, 366
Specialists, maintaining supply of, during national emergency (abs), 834
Spinal canal, lower, thorotrast in diagnosis of lesions involving (abs), 698
cord, intramedullary epidermoid cyst of (abs), 124
Spine, cervical, atlas-axis dislocation following infection of (abs), 559
cervical, extension deformities of (abs), 707
dumb-bell tumors of (abs), 124
lateral roentgenography of, 695
lumbosacral region, clinicoanatomical aspects of (abs), 708
lumbosacral region, correlation of roentgenographic and anatomical observations (abs), 709
pathology of tuberculosis of (abs), 707
possible relation of spontaneous atlanto-axial dislocations to deformity of (abs), 559
Spondylitis ossificans ligamentosa (abs), 420
Spondylarthritis ankylopoietica (abs), 127
Staphylococcus antitoxin, localization and concentration of, in areas of rabbit's skin treated with ultraviolet radiation, 101
pneumonia in infants (abs), 564
Steatorrhea, long-continued low-grade, severe osteoporosis associated with (abs), 699
Stenosis, mitral, patent interauricular septum associated with (abs), 280
Sterility, therapeutic value of tubal patency tests in (abs), 285
Stomach, carcinoma, superficial spreading type of (abs), 568
herniation of, at esophageal hiatus, 33
malignant lesions of (abs), 568
method for simultaneous aspiration of contents of, and first part of duodenum (abs), 566
Sulfonamides, value of roentgen therapy in pneumonia which fails to respond to (abs), 423
Surgery, selection of cases for, in cancer of breast (abs), 714
Synovial sarcomas in joints, bursae, and tendon sheaths (abs), 128
Syphilis, early, destructive osseous lesions in (abs), 703
endemic, roentgen manifestations of, as observed in Euphrates River Valley (abs), 419

Table, universal, for fluoroscopic localization of foreign bodies (abs), 290
Technique for locating and identifying pericardial and intracardiac calcifications, 461
of bronchography (abs), 564
optimum kilovoltage, in military roentgenography, 358
roentgenographic, 366
system of, employed at Brooklyn Cancer Institute, 76
Temperature and radiosensitivity of skin of newborn rats (abs), 292
low, effect of, on roentgen irradiation reaction of human skin, 629
Tendon sheaths, synovial sarcomas in (abs), 128
Teratoma testis with single tridermal metastases (abs), 573
Tesla, Nikola, 1856–1943, obituary, 114
portrait, 114
Testicles, study of malignant tumors of (abs), 573
Testis, seminoma, pathologic features of, 162
seminoma, production of hormone, 162
seminoma, roentgen treatment, 162
Thiamin chloride, effect of roentgen rays, radon and radioactive phosphorus on, 641
Thorium x treatment of cancer of face, particularly eyelids (abs), 140
Thorotrast, elimination of radioactive elements by patients and rabbits after injection of (abs), 286
use in diagnosis of lesions involving lower spinal canal (abs), 698
Throat, diagnosis of cervical metastasis from squamous carcinoma of, 219
Thrombosis, acute coronary, roentgen determination of heart size and pulmonary findings during (E), 820
as complication of venography (abs), 711
of inferior vena cava, collateral venous circulation in (abs), 132
venous (abs), 132
Thyrotoxicosis, roentgen appearance of heart in (abs), 562
Tibia, eosinophilic granuloma of, 355
epidermoid carcinoma of, 602
Tissue changes, experimental post-irradiation, in lung, effect of heparinization on, 1
cultures, correlation between roentgen dosage and lymphoid cell migration in (abs), 431
Tissues, irradiated, recovery function of (abs), 431
normal and malignant mammalian, effects of irradiation on proliferation and metabolic processes of (abs), 288
subcutaneous, unusually sensitive to roentgen rays, 636
Tonsils, cancer of (abs), 136
Tuberculosis and coccidioidal infections, parallelism of (abs), 563
control program of United States Public Health Service, 214
genitoperitoneal, treatment of, in women, with roentgen irradiation by Menge's method (abs), 139

in the Army (abs), 273
lympho-haematogenous (abs), 278
multiple cystic, of bones (abs), 704
multiple cystic, of lung bones (abs), 130
of bone in children (abs), 702
of flat bones of vault of skull (abs), 558
of ribs (abs), 418
of spine, pathology of (abs), 707
problem of World War No. 1 and in present mobilization (abs), 273
program, photoroentgenography in (abs), 274
pulmonary, gastrointestinal complications in (abs), 281
pulmonary, its exclusion from Navy (abs), 272
pulmonary, roentgenographic aspects of Monaldi's cavity aspiration in, 733
skeletal and genitourinary, relationship between (abs), 570
Tuberculous cavities, observations on transpleural decompression (abs), 275
cavities, spontaneous closure of (abs), 275
cavity, inspissated (abs), 275
pleural effusions, bilateral (abs), 276
Tumor dosage, system of, employed at Brooklyn Cancer Institute, 76
Ewing's, of bone marrow, pathology and histogenesis of, 334
Ewing's, of bone marrow, roentgenologic aspects of, 343
growth, metastatic, influence of roentgen irradiation of normal lung on prevention of subsequent (abs), 139
Wilms', in male aged sixty-four (abs), 571
Tumors, dumb-bell, of spine (abs), 124
malignant nasopharyngeal, roentgen diagnosis, 9
malignant testicular, study of (abs), 573
malignant, of kidney in adults, roentgen therapy, 204
malignant, physico-biological problems in irradiation of (abs), 133
metastatic, results of roentgen therapy for, 197
mucous and salivary gland, radium treatment (abs), 137
of cerebellum, unusual symptomatology with (abs), 271
myomatous, of epididymis (abs), 574
of palate, benign and malignant (abs), 558
of pelvis, preservation of ovarian function in irradiation of (abs), 145
of uterus and ovary, development of benign and malignant, after roentgen irradiation (abs), 145

Ulcer in descending duodenum, 752
Ulcers from irradiation, treatment of (abs), 429
gastroduodenal, autopsy survey of (abs), 283
Ultraviolet radiation, localization and concentration of staphylococcus antitoxin in areas of rabbit's skin treated with, 101
United States Public Health Service, tuberculosis control program of, 214
Uremia, bilateral ureteral obstruction associated with (abs), 571
Ureter, benign polyps of (abs), 572
Ureters, simultaneous obstruction of both (abs), 571
Urethra, female, radiotherapy of primary cancer of (abs), 430
Urinary tract, tuberculosis of, relation between, and skeletal tuberculosis (abs), 570
Urogram, clinical value of delayed (abs), 829
Uterus, bladder injury subsequent to irradiation of (abs), 146
cervix, cancer, consideration of effect of bone absorption on radiation in treatment of (abs), 832
cervix, cancer, radium treatment of, during pregnancy (abs), 143
cervix, cancer, response of crater of, to radiotherapy (abs), 144
cervix, cancer, results of radiotherapy of (abs), 143
cervix, carcinoma, five year results of treatment of (abs), 144
cervix, carcinoma, treatment of (abs), 143
development of benign and malignant tumors of, after roentgen irradiation (abs), 145
fibroids, roentgen management (abs), 427
myoma of, intrauterine radium irradiation of (abs), 142

Vasa deferentia, calcification of (abs), 573
Vascularity of growing rat bones, effect of irradiation upon, 516
Vena cava, inferior, collateral venous circulation in thrombosis of (abs), 132
Venography, thrombosis as complication of (abs), 711
Vertebrae, cervical and upper dorsal, anomaly of, 57
cervical, neurological symptoms and clinical findings in patients with degenerative arthritis of (abs), 125
Vertebral ligaments, calcification and ossification of, roentgen study (abs), 420
Vitamin deficiency cardiac conditions, roentgen diagnosis of (abs), 280
Voltage controls, stepless, for roentgen-ray generators (abs), 834

War conditions, changes made in care of civilian patients due to, 433
wounds and injuries of the chest (E), 684
Ward, Charles Byron, 1882–1943, obituary, 408
Washington State Radiological Society, 118
Wave length and skin reaction in fractionated roentgen irradiation (abs), 426
Western Reserve University School of Medicine, celebration of one hundredth anniversary, 826
Wilms' tumor in male aged sixty-four (abs), 571
Wounds that heal poorly, treatment of (abs), 429
Wrist, oblique views in roentgenography of, 119

AUTHOR INDEX TO VOLUME 50

Abelson, S. M., 559
Abramson, D. J., 130
Ackerman, Lauren, 275
Adair, Frank E., 515
Adams, J. E., 573
Adams, Ralph, 564
Andersen, Dorothy H., 702
Arbuckle, Robert K., 609
Arkin, Alvin M., 709
Atlee, Z. J., 648
Auler, H., 429

Bach, Ernst, 286
Bailey, Wilbur, 830
Baker, Charles F., 283
Ball, Robert P., 770
Ballenger, E. G., 570
Barden, Robert P., 139, 541, 575
Barnes, R. Bowling, 366
Barringer, B. S., 830
Bauer, Gunnar, 132
Baylin, George J., 280
Belanger, W. George, 9
Beling, C. Abbott, 283
Bell, A. L. L., 707
Benninghoven, Carl D., 706
Benson, Roland R., 89, 100, 712
Beohm, E. E., 556
Berk, J. Edward, 566
Bernhard, William A., 566
Bernstein, Louis, 76
Berridge, F. R., 567
Bethell, Frank H., 831
Beutel, Alois, 430
Bigger, I. A., 207
Blady, John V., 98
Blatt, Maurice L., 560
Blatz, Irving Hanson, 67
Bloneck, Francis, 290
Blumenthal, Sidney, 560
Bonnell, Fred H., 127
Borak, J., 426, 831
Borman, Chauncey N., 752
Borzell, Francis F., 217
Bosworth, David M., 707
Bowing, H. H., 628
Bowser, John F., 279
Boys, Floyd, 1
Braasch, W. F., 829
Braestrup, C. B., 421
Brailsford, James F., 129
Bray, Philip N., 285
Brocher, J. E. W., 414
Broders, A. C., 572
Bromer, Ralph S., 561
Bronstein, I. P., 559
Brown, J. M., 282
Brown, Lloyd T., 707
Brown, Percy, 421
Brown, Willis E., 427
Bruck, Samuel, 282
Brunn, Harold, 275
Budd, John W., 713
Burrows, H. Jackson, 131

Camiel, Mortimer R., 67
Capp, Charles S., 125
Carey, R. M., 835
Carter, Ray A., 563
Carty, John Russell, 133
Case, James T., 31
Casper, Stephen L., 24
Chamberlain, W. Edward, 262, 420
Chaoul, H., 289
Chapman, John, 277
Chatterton, Carl C., 709
Chont, L. K., 283, 480, 710
Clemens, H. H., 564
Cleveland, Mather, 707
Cocchi, Umberto, 429
Cohen, Samuel, 278
Cohen, Seymour J., 281
Conley, A. H., 700
Connelly, Marie, 282
Conway, J. F., 572
Cooper, Eric L., 418
Cooper, Franklin S., 288
Corby, Robert A., 291
Cove, A. M., 284
Curl, Howard, 565
Curtiss, L. F., 148

Danciger, J. A., 132
Dandy, Walter E., 698
Davenport, Lowrey F., 564
Davidson, O. W., 571
Davis, Charles L., 706
Davis, David B., 560
Davis, K. F., 570
Dean, A. L., 146
de Carvajal-Forero, J., 248, 573
de Lorimier, Alfred A., 273, 835
De Santo, Dominic A., 128
Desjardins, Arthur U., 422, 636, 640
Deucher, W. G., 197
deVries, J. K., 129
Dickinson, J. C., 834
Dieter, W., 138
Dieterich, W., 138
Dockerty, M. B., 570, 705
Donovan, Mark S., 293
Doss, A. K., 829
Dow, James Findlay, 566
Dowell, D. Arnold, 422
Dragutsky, David, 281
du Mesnil de Rochemont, R., 834
Duncan, Robert F., 272
Dunham, Charles L., 127
Dunlap, Charles E., 641
Dyke, Cornelius G., 9

Eastland, William F., 147
Eden, Kenneth, 124
Edson, George N., 707
Egbert, E. Wayne, 770
Ellinger, Friedrich, 288
Elliott, William J., 779
Ellis, John E., 553
Epstein, Bernard S., 272, 316
Erf, L. A., 291
Ernst, Edwin C., 427
Evans, W. G., 135
Evans, T. C., 292, 629
Evans, William A., Jr., 125
Eymer, H., 143

Falconer, Murray A., 124
Farber, Sidney, 700
Farrow, Joseph H., 513
Fink, H., 572
Fisher, C. V., 573
Focht, Elizabeth F., 653
Fowler, H. A., 571
Freid, Jacob R., 499, 515, 628
Fricke, Robert E., 423
Friedman, H. H., 574
Friedmann, Asa B., 797
Friedmann, Lewis J., 129
Frost, Thomas T., 704
Fruchter, Joseph M., 282
Fuchs, Arthur W., 358
Fuhrman, Murray, 281
Fulton, John Farquhar, 413

Gajzago, Desiderius, 701
Garland, L. H., 280, 282
Gauss, C. J., 425
Gianturco, Cesare, 695
Goecke, H., 142
Göttche, Oskar, 701
Goin, Lowell S., 712
Goldberg, H., 499, 571
Golden, Ross, 19, 354, 750
Goldfeder, Anna, 288
Goldman, Alfred, 275
Goldman, Douglas, 381
Goltz, H. L., 833
Goodrich, J. P., 292
Gordon, J. S., 283

Graber, Edward A., 417
Graham, Allen, 134
Grant, Francis C., 271
Gray, L. H., 836
Grayzel, D. M., 574
Green, William T., 700
Grier, George W., 353
Griffith, H. D., 135
Grishman, A., 291, 306
Groh, J. A., 230
Gross, Reuben, 288
Grossman, Leo, 281
Guthmann, Heinrich, 424

Hallock, Phillip, 453
Hamm, F. C., 571
Hammer, Gerhard, 138
Happey, Frank, 289
Hardt, Leo L., 281
Harrell, George T., 423
Harris, Ivor David, 1
Harris, John H., 217
Harvey, Roger A., 290
Hatchette, Stakely, 244
Haupt, Walther, 144
Hayden, Charles T., 285
Hedrick, Donald W., 419
Henderson, Richard G., 569
Henny, George C., 161, 258, 263
Henschel, Austin F., 431
Hess, Julius H., 559
Hewes, Fred L., 284
Hild, Jack R., 562
Hilleboe, Herman E., 214, 217
Hinkel, Charles L., 516
Hodes, Philip J., 422
Hodges, C. V., 146
Hodges, Fred J., 17, 274
Hoff, Ebbe Curtis, 413
Holmes, George W., 210
Homans, John, 711
Hooper, Reginald S., 124
Hornick, Newton, 707
Horwitz, Thomas, 355
Hoskins, Henry, 277
Howes, William E., 76
Hudson, Jessie B., 57
Hueper, W. C., 573
Hufford, C. E., 719
Huggins, C., 146
Hynes, John F., 98, 627

Inclan, Alberto, 699
Ingersoll, C. F., 469
Inman, Verne T., 708

Jacobs, Lewis G., 835
Jacobs, Morris B., 414
Jacobson, Lillian E., 530
Janzen, Arnold H., 292
Jenkinson, E. L., 126
Joffe, Herman, 283
Johnson, C. M., 572
Johnson, W. M., 423
Jones, Clifford, 147
Jones, Edgar, 281
Jones, Horace C., 419
Jones, Horace L., Jr., 444
Joseph, Vera, 701
Jüngling, O., 134

Kampmeier, R. H., 281
Kaplan, Ira I., 791, 796
Kaplan, Leo, 562
Kapo, Peter J., 696
Kautz, Friedrich G., 127
Kautzky, A., 426
Keen, J. A., 132
Kelly, James F., 422
Kenney, J. M., 287
Kerr, H. Dabney, 204, 629
Key, J. Albert, 703
Kieffer, Jean, 278
Kilgore, Alson R., 714
King, Arthur B., 565
King, Joseph T., 431
Kinzer, R. E., 126
Kirkland, George K., 124
Kirklin, B. R., 834
Kiskadden, William S., 830
Kleinberg, Samuel, 712
Kornblum, Karl, 32
Kraft, Ernest, 602
Krause, George R., 419
Kretzschmar, N. R., 427
Kuhns, John G., 707
Kupka, Edward, 733

Lacassagne, Antoine, 801
Lahm, W., 137
Langendorff, H., 134
Langmead, W. A., 836
Large, Alfred M., 703
Larson, Sidney, 61
Leach, John E., 616, 772
Leblond, Charles Philippe, 801
Leddy, Eugene T., 162
Lederman, M., 137
Lenz, Maurice, 353, 515
Leucutia, T., 111
Levene, George, 562
Leventhal, Michael L., 285
Levine, Samuel, 765
Lewis, Raymond W., 119
Lichty, John A., Jr., 61
Lipscomb, Paul R., 709
Lowsley, O. S., 573

McClelland, J. C., 570
McCloskey, Bernard J., 42
McCullough, David, 277
McDonald, H. P., 570
McGavran, Charles W., 569
McGoldrick, Joseph L., 418
McGreer, John T., 427
McIntosh, Harriet C., 511
McKenney, A. C., 280
McLachlan, Dan, Jr., 366
Madding, Gordon F., 423
Maier, Emil, 140
Manning, J. J., 283
Marinelli, L. D., 287
Marquis, W. James, 283
Marshall, William A., 680
Martin, Charles L., 354
Martin, Hayes, 558
Martin, Robert C., 559
Martius, Heinrich, 136
Master, Arthur M., 550
Mattingly, D., 284
Mayer, A., 142
Mayer, Ernst G., 426
Meleney, Henry E., 276
Meng, C. M., 558
Menville, L. J., 284
Merchant, Albert K., 567
Mettier, Stacy R., 125
Meyer, Wm. H., 427
Meyerding, Henry W., 705
v. Mikulicz-Radecki, F., 143
Milch, Henry, 704
Miller, D. S., 700
Miller, Earl R., 706
Miller, Lois C., 562
Miller, Merle M., 796
Miyakawa, George, 699
Moehlig, Robert C., 582
Monfort, John A., 702
Moore, Louis T., 569
Moreau, Jorge E., 414
Moreau, Marcelo H., 414
Morgan, J. B., 829
Morgan, Russell H., 149
Morton, Daniel G., 285
Movers, F., 141
Mueller, H. Peter, 210
Müller, Hans, 134
Mutscheller, A., 431
Myers, F. E., 803

Nash, Leo A., 162
Neely, J. Marshall, 279
Neil, R. H., 834
Neuhauser, Edward B. D., 293
Nichols, B. H., 698
Niseggi, Carlos H., 414

O'Brien, Frederick W., 713
O'Brien, M. G., 830
O'Donoghue, D. H., 704

Oechsli, Waldo R., 733
Oppenheimer, Albert, 420
Ortmayer, Marie, 282
Ozlin, W. J., 207

Paine, Alfred L., 276
Peck, Willis S., 427
Peirce, Carleton B., 731
Pendergrass, Eugene P., 422, 491
Peterson, Harold O., 272
Petrauskas, A. A., 803
Peyton, William T., 272
Pfahler, George E., 514, 627
Pheasant, Homer C., 709
Pickhan, Arthur, 430
Pindell, M. L., 274
Pinkerton, Henry, 569
Pohle, Ernst A., 89, 712
Pollock, William C., 273
Pomeranz, Maurice M., 129
Popp, Walter C., 423
Poppel, M. H., 284, 835
Posner, I., 705
Potter, J. Craig, 289
Quastler, Henry, 669
Quimby, Edith H., 99, 424, 653

Rajewsky, B., 425
Ramsey, Thomas L., 730
Read, John, 836
Reed, James, 709
Rehfuss, Martin E., 566
Reinhard, M. C., 833
Rendich, R. A., 284, 835
Reynolds, Frank W., 703
Riaboff, P. J., 573
Ries, J., 143
Rigdon, R. H., 101
Rigler, Leo G., 453
Ritvo, Max, 284
Robbin, Lewis, 566
Robbins, Frederick C., 641
Robbins, Laurence L., 321
Robertson, James E., 392
Rook, George, 281
Rosenberg, Edward F., 705
Rosenblatt, Philip, 835
Roshan, Paul D., 128
Rosi, Peter A., 832
Rost, Glenn S., 419
Rothenberg, Robert E., 835
Rousseau, J. P., 423
Rubenfeld, Sidney, 791
Runge, H., 141

Sanderson, Stevens S., 148
Sandler, Bernard, 832
Sante, L. R., 7, 719, 731
Sauer, H. R., 570
Saunders, John B. deC. M., 708
Saupe, E., 140 146
Schaefer, Walter, 133
Schatter, T., 289
Schatzki, Richard, 743, 751
Schein, Albert J., 709
Schilling, W., 429
Schinz, H. R., 428
Schlesinger, Edward R., 702
Schmidt, Wilhelm, 424
Schmiemann, Rolf, 139
Schönander, Georg, 290
Schönbauer, L., 136
Schwarzschild, M. M., 432
Scott, Wendell G., 444
Scott, W. W., 146
Segal, A. D., 572
Sell, L. S., 704
Severin, Erik, 130
Shafar, J., 126
Shamaskin, Arnold, 275
Shapiro, Robert, 46
Shulman, Simon, 126
Siegert, F., 142
Simon, Robert S., 708
Sims, George P., 135
Slaughter, D. P., 146
Slaughter, J. C., 292
Smith, Arthur B., 279
Smith, Carl H., 710
Smith, Charles Edward, 563
Smith, D. R., 572
Smith, Rodney, 131
Soeters, J. M., 132
Soiland, Albert, 714
Solis-Cohen, Leon, 765
Solomon, Ernest M., 285
Solomon, Nathaniel H., 702
Sosman, Merrill C., 293, 461, 709
Stanford, Brian, 290, 836
Stearns, Genevieve, 699
Steinberg, M. F., 291, 306
Stenstrom, Wilhelm, 286, 431
Stephens, Robert L., 204
Sternberg, William H., 701
Stiles, George W., 706
Stout, Arthur Purdy, 334, 354, 568
Strauss, Hyman, 418
Sturgis, Cyrus C., 433
Sussman, M. L., 291, 306
Sutherland, Charles G., 148
Sweet, L. K., 130
Swenson, Paul C., 343, 709

Taft, Robert B., 258, 432
Tennant, Robert, 128
Teperson, Hyman I., 291
Thomas, J. Earl, 566
Thompson, Basil, 554
Thompson, M. R., 248, 573
Thoms, Herbert, 417
Thorek, Max, 552
Torpin, Richard, 418
Trout, E. D., 648
Tunick, Isidore S., 129
Turner, John W., 33
Tuta, Joseph A., 832

Uhlmann, Erich, 429, 639

Van Antwerp, Lee D., 54
Van Atta, L. C., 803
van Creveld, S., 132
Vanzant, B. T., 833
Vinson, P. P., 207
Vöge, A., 141
Vogt, E., 145
Vonessen, A., 428

Wachowski, T. J., 283
Wachsmann, F., 289
Waghelstein, Julius, 565
Walters, Waltman, 568
Wammock, Hoke, 609, 628
Warner, A. H., 834
Warren, J. W., 132
Wassersug, Joseph D., 418
Watson, T. A., 136
Warren, Shields, 292
Wasch, Milton G., 677
Wassermann, Harry, 703
Webster, J. H. Douglas, 552
Webster, John E., 271
Weens, H. S., 564
Weidman, William H., 278
Weinberger, Laurence M., 271
Weisel, W., 570
Weiss, Konrad, 147
Weisswange, W. M. H., 145
Weisz, Leo, 527
Weyrauch, Henry M., Jr., 829
Wharton, L. R., 571
Whitcomb, C. A., 219
White, George, 491, 515
Wiese, E. Robert, 275
Williams, Henry L., 423
Williams, M. M. D., 431, 432
Wintz, H., 139
Wissing, Egon G., 527
Witte, Ernst, 136
Woite, Ch., 429
Wolf, Bernard S., 400
Wolfram, Werner, 144
Woodard, Helen Q., 287
Wu, Y. K., 558

Young, Dennison, 316

Zahl, Paul A., 288
Zeldes, Mary, 560